

New

# Construction Adhesives RK-7000 / RK-7200

High-strength, fast-curing, two-component construction adhesives on the basis of MMA (methyl methacrylate) with excellent adhesion on plastic, metal and many other materials.

The following materials can be permanently bonded to themselves and among each other, for example:

- plastics (e.g. PVC, ABS, PMMA, fibre glass, phenol)
- polyurethane • epoxides • steel and aluminium
- wood • concrete, ceramics and many others

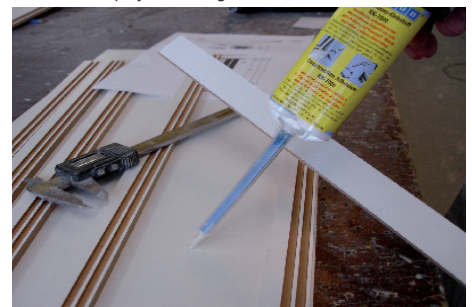
WEICON RK Construction Adhesives feature special product-specific characteristics:

- high tensile, shear and impact strengths
- fast hardening
- excellent adhesion on plastic, metal and many other materials
- for indoor and outdoor use
- resistant to water, weather conditions, and many chemicals
- grindable and overpaintable
- wide variety of applications
- temperature resistant from  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

WEICON RK Construction Adhesives application examples from various branches: plastics engineering • machine building and metal construction • car body and vehicle construction • electrical engineering • building and furniture industry • lamp and lighting industry • trade fair and exhibition construction • model and mould construction • ventilation and air conditioning



Bonding of metal slats to a protective covering made of polyester for agricultural machines



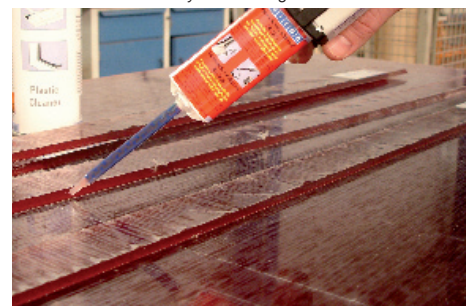
Bonding of plastic-laminated MDF plates (model making)



Bonding of plastic shells made of polyester (prototypes in mould making)



Bonding of stainless steel and carbon in yacht building



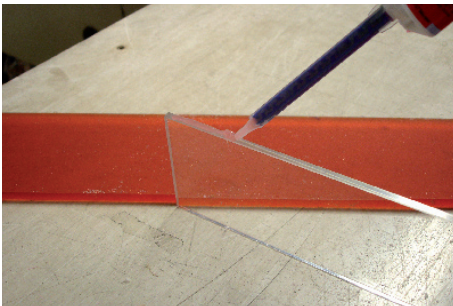
Bonding of various acrylic glass elements for store construction



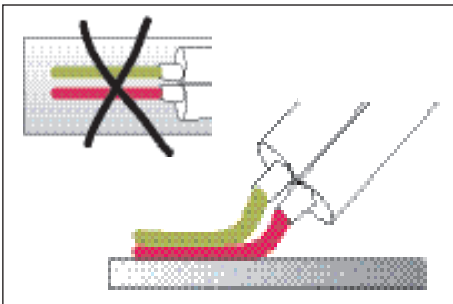
Bonding of decoration parts made of plexiglas (exhibition building)



Bonding of plastic slats to shells made of glass fiber reinforced epoxy resin



Bonding of acrylic glass slats (exhibition building)



Adhesive application bead to bead

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WEICON RK Construction Adhesives are alternatively available in the practical double syringe or in the modern “Easy-Mix” mixing and dosing system.

Instructions for use: The prerequisite for perfect adhesion are clean and dry surfaces. The best results are achieved when the adhesive surfaces are mechanically roughened. After that, clean and degrease them using WEICON Cleaner S or WEICON Plastic Cleaner.

**Double syringe 24 g:** Break off the seal. Then, alternatively:

- Apply both components to one of the parts being joined, one bead directly on top of the other, and join the parts with slightly rotating motions.
- Press out and mix both components and then join the parts. This method guarantees the highest strength.

**Double cartridge 50 g:** Insert the cartridge into the dosing gun. Remove the seal of the cartridge and put on the quattro static mixer. This provides for optimum mixing without material loss. Remove the static mixer after use and seal the cartridge.

## Technical data

Product	Properties	RK-7000	RK-7200
Basis:		Methyl methacrylate	Methyl methacrylate
Delivery form/contents:		Double syringe 24 g Double cartridge 50 g	Double syringe 24 g Double cartridge 50 g
Mixing ratio of resin/hardener (automatic):		1 : 1	1 : 1
Colour after curing:		yellowish	light brown
Mixture density:		1,00 g/cm <sup>3</sup>	1,01 g/cm <sup>3</sup>
Mixture viscosity at +20°C:		53000	3500
Pot life at +20°C:		10 – 15 minutes	6 – 10 minutes
Handling strength (35%) after*1:		25 minutes	15 minutes
Mechanical loads (50% strength) after*1:		60 minutes	50 minutes
Final strength (100%) after:		12 hours	12 hours
Adhesive gap bridging:*2		0,1 mm to 4,0 mm	0,1 mm to 3,0 mm
Average strength at +20°C acc. to DIN 53281-83:		20 – 25 MPa	20 – 25 MPa
Average E-module at +20°C acc. to DIN 53281-83:		1000 MPa	1000 MPa
Shore hardness D:		78	80
Expansion:		15 – 25%	15 – 25%
Temperature resistance*3:		-55°C to +125°C	-55°C to +125°C
Shelf life:		12 months	12 months

\*1 For easier processing, the double cartridges and syringes should be heated to room temperature (+20°C) before use at low temperatures.

\*2 This data depends on the type and properties of the materials being adhered.

\*3 A temporary thermal load of about +180°C for approx. 30 minutes in powder coating has no influence on the strength.

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